What is claimed is:

- 1 1. A method comprising periodically adjusting an access point output power in
- a wireless network to reduce potential interference while communicating with
- 3 associated mobile stations.
- 1 2. The method of claim 1 wherein periodically adjusting an access point output
- 2 power comprises determining a path loss for each associated mobile station.
- 1 3. The method of claim 1 further comprising adjusting the access point output
- 2 power when a mobile station associates.
- 1 4. The method of claim 3 further comprising adjusting the access point output
- 2 power when the mobile station disassociates.
- 1 5. The method of claim 1 further comprising transmitting beacons at a full
- 2 access point output power.
- 1 6. A method comprising:
- transmitting a beacon frame in a wireless network;
- receiving a signal from a mobile station; and
- 4 adjusting an access point output power to reliably communicate with the
- 5 mobile station.
- 1 7. The method of claim 6 wherein adjusting an access point output power
- 2 comprises reducing the output power of frames other than beacon frames.
- 1 8. The method of claim 7 wherein adjusting an access point output power
- 2 further comprises transmitting beacon frames at a maximum power.

- 1 9. The method of claim 6 wherein adjusting an access point output power
- 2 comprises calculating a first path loss to the mobile station.
- 1 10. The method of claim 9 wherein adjusting an access point output power
- 2 further comprises setting the output power to overcome the path loss.
- 1 11. The method of claim 9 further comprising receiving a signal from a second
- 2 mobile station.
- 1 12. The method of claim 11 further comprising calculating a second path loss to
- 2 the second mobile station.
- 1 13. The method of claim 12 further comprising adjusting the output power to
- 2 overcome a greater of the first path loss and the second path loss.
- 1 14. A method comprising:
- transmitting a beacon frame from an access point at a full power level; and
- transmitting frames other than beacon frames from the access point at less
- 4 than the full power level.
- 1 15. The method of claim 14 wherein transmitting frames other than beacon
- 2 frames comprises transmitting at a power level high enough to overcome a path loss
- 3 to an associated mobile station.
- 1 16. The method of claim 15 further comprising adjusting the power level when
- 2 the associated mobile station disassociates.
- 1 17. The method of claim 15 further comprising adjusting the power level when
- 2 another mobile station associates.

- 1 18. The method of claim 14 further comprising periodically readjusting the
- 2 power level.
- 1 19. The method of claim 18 wherein periodically adjusting the power level
- 2 comprises determining a path loss to an associated mobile station.
- 1 20. An apparatus including a medium to hold machine-accessible instructions
- 2 that when accessed result in a machine performing:
- transmitting a beacon frame from an access point at a full power level; and
- 4 transmitting frames other than beacon frames from the access point at less
- 5 than the full power level.
- 1 21. The apparatus of claim 20 wherein transmitting frames other than beacon
- 2 frames comprises transmitting at a power level high enough to overcome a path loss
- 3 to an associated mobile station.
- 1 22. The apparatus of claim 21 wherein machine-accessible instructions, when
- accessed, result in the machine further performing adjusting the power level when
- 3 the associated mobile station disassociates.
- 1 23. The apparatus of claim 21 wherein machine-accessible instructions, when
- accessed, result in the machine further performing adjusting the power level when
- 3 another mobile station associates.
- 1 24. An electronic system comprising:
- 2 an antenna;
- a variable output power radio interface coupled to the antenna;
- 4 a processing apparatus coupled to the variable output power radio interface
- to periodically adjust an output power to reduce potential interference while
- 6 communicating with associated mobile stations; and

- 7 an Ethernet interface coupled to the processing apparatus.
- 1 25. The electronic system of claim 24 further comprising an apparatus including
- a medium to hold machine-accessible instructions that when accessed result in the
- 3 processing apparatus performing:
- 4 transmitting a beacon frame at a full power level; and
- transmitting frames other than beacon frames at less than the full power
- 6 level.
- 1 26. The electronic system of claim 25 wherein transmitting frames other than
- beacon frames comprises transmitting at a power level high enough to overcome a
- 3 path loss to an associated mobile station.